

XTAG-2 Schematics - Includes L1 design recommendations

ITEM	QTY	REFDES	XMOS_PART_NUMBER	DESCRIPTION	MANUFACTURER	PART_NUMBER	PACKAGE
1	1	R4	E-01-0001	RES 1k 0603 1%	ROHM	MCR03EZPFX1001	0603
2	3	R5,R7,R8	E-01-0002	RES 10k 0603 1%	ROHM	MCR03EZPFX1002	0603
3	3	R9,R13,R14	E-01-0008	RES 33R 0603 1%	ROHM	MCR03EZPFX33R0	0603
4	1	R11	E-01-0019	RES 4.7R 0603 1%	ROHM	MCR03EZPJ4R7	0603
5	1	R12	E-01-0022	RES 470R 0603 1%	ROHM	MCR03EZPFX4700	0603
6	1	R1	E-01-0033	RES 8k06 0603 1%	ROHM	MCR03EZPFX8061	0603
7	1	R2	E-01-0035	RES 2.2M 0603 1%	ROHM	MCR03EZPFX2204	0603
8	1	R3	E-01-0037	RES 6.8k 0603 1%	ROHM	MCR03EZPFX6801	0603
9	1	R6	E-01-0039	RES 47k 0603 1%	ROHM	MCR03EZPFX4702	0603
10	1	C5	E-02-0007	MLCC 10uF 0805 X5R 10V	Murata	GRM21BR61A106KE19	0805
11	16	C6,C8,C9,C11,C12,C13,C14,C15,C16,C17,C19,C20,C21,C22,C24,C25	E-02-0017	MLCC 100nF 0603 X7R 16V	Murata	GRM188R71C104KA01	0603
12	2	C27,C28	E-02-0018	MLCC 33pF 0603 COG 50V	Murata	GRM1885C1H330JA01	0603
13	2	C29,C30	E-02-0019	MLCC 2.2uF 0603 X5R 10V	Murata	GRM188R61A225KE34	0603
14	1	C1	E-02-0020	MLCC 1uF 0603 X5R 10V	Murata	GRM188R61A105KA61	0603
15	1	C2	E-02-0021	MLCC 4.7uF 0805 X5R 10V	Murata	GRM219R61A475KE34	0805
16	1	C3	E-02-0022	MLCC 10nF 0603 X7R 50V	Murata	GRM188R71H103KA01	0603
17	1	C4	E-02-0023	MLCC 330pF 0603 COG 50V	Murata	GRM1885C1H331JA01	0603
18	1	C7	E-02-0025	MLCC 1nF 0603 X7R 50V	Murata	GRM188R71H102KA01	0603
19	1	J1	E-04-0020	Box Header, Female, Right Angle, Through Hole, Polarised, 20 Way, 2x10, 0.1" Pitch	Sullins	SFH11-PBPC-D10-RA-BK	HEADER_FEM_RA_20PIN
20	1	J2	E-04-0021	USB Series A Plug, Right Angle, Through Hole	Samtec	USB-AM-S-F-B-TH	USB_A_PLUG_TH
21	1	U4	E-05-0005	Voltage regulator, LDO, Fixed, 1.8V, 150mA	ON Semiconductor	NCP699SN18T1G	SOT23_5
22	1	U6	E-05-0007	DC-DC Converter, 1.5MHz, 600mA	ON Semiconductor	NCP1521BSNT1G	SOT23_5
23	1	U5	E-05-0011	Voltage regulator, LDO, Fixed, 3.3V, 180mA	Fairchild Semiconductor	FAN2558S33X	SOT23_5
24	1	X1	E-07-0005	Crystal, 13MHz, HC49/US SMD, Fundamental, 18pF, Tol. ±30ppm, Stab. ±30ppm	Abracon	ABLS2-13.000MHz-D4Y	XTAL_HC49US_SMD
25	1	FB1	E-08-0002	Ferrite Bead, 330R AT 100MHz, 0603, 1.7A	Murata	BLM18KG331SN1	0603
26	1	L1	E-09-0004	Power Inductor, 2.2uH, 0.7A, 260mR DCR	Taiyo Yuden	CBC2016T2R2M	TAIYO_2016
27	1	U3	E-11-0003	XMOS XS1-L1 Processor, 64LQFP	XMOS	XS1-L01A-LQ64-C4	LQFP64_XMOS
28	1	U7	E-13-0019	Voltage Detector, Programmable Delay, SOT23-5	ON Semiconductor	NCP303LSN09T1G	SOT23_5
29	1	U1	E-13-0020	USB 2.0 Transceiver, ULPI, 13MHz Ref, QFN24	SMSC	USB3318C-CP	QFN24_SMSC
30	1	U2	E-13-0021	Unbuffered Inverter, UHS Series, SOT-23-5	Fairchild	NC7SZU04M5X	SOT23_5
31	1	U8	E-13-0026	Dual Logic Buffer, Open Drain Output, UHS Series, SC70	Fairchild	NC7WZ07P6X	SC70_6
32	1	F1	E-17-0001	Polyswitch Resettable Fuse, nanoSMD, 0.35A	Tyco Electronics	nanoSMDC035F	1206